

# **Summer Student Program 2018 | Final Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Wednesday, 5 September 2018 09:00 (20 minutes)*

Contribution ID: 2

Type: **not specified**

## Farewell

*Thursday, 6 September 2018 17:10 (10 minutes)*

Contribution ID: 3

Type: **not specified**

## Multimessenger search

*Wednesday, 5 September 2018 09:20 (20 minutes)*

**Presenters:** DIAS, Bernardo; SILVA, Nelson

**Session Classification:** Session 1

Contribution ID: 4

Type: **not specified**

## **Exotics search of boosted dark matter in the SNO+ experiment**

**Presenter:** LOPES, Alexandra

**Session Classification:** Session 1

Contribution ID: 5

Type: **not specified**

## **Solar modulation of cosmic rays**

*Wednesday, 5 September 2018 09:40 (20 minutes)*

**Presenters:** BORDADÁGUA, Beatriz; SEVERINO, Clara

**Session Classification:** Session 1

Contribution ID: 6

Type: **not specified**

## **Measuring radiation effects in Space**

*Wednesday, 5 September 2018 10:00 (20 minutes)*

**Presenters:** FERREIRA, Beatriz; FREIXO, Pedro; MOREIRA, Pedro

**Session Classification:** Session 1

Contribution ID: 7

Type: **not specified**

## **Lepton universality test in top quark pair decays**

*Wednesday, 5 September 2018 11:10 (20 minutes)*

**Presenters:** VITAL, Joana; NEVES, José

**Session Classification:** Session 2



Contribution ID: 8

Type: **not specified**

## Rare beauty decays

*Wednesday, 5 September 2018 11:30 (20 minutes)*

**Presenter:** FARIA, Maria

**Session Classification:** Session 2

Contribution ID: 9

Type: **not specified**

## Quarkonia polarization studies

*Wednesday, 5 September 2018 11:50 (20 minutes)*

**Presenters:** GASPAR, Ana; LOPES, Beatriz

**Session Classification:** Session 2

Contribution ID: **10**

Type: **not specified**

## **Hadron production at the highest energies**

*Wednesday, 5 September 2018 12:10 (20 minutes)*

**Presenter:** MARTINS, Miguel

**Session Classification:** Session 2

Contribution ID: 11

Type: **not specified**

## **Reconstrução e visualização de acontecimentos no observatório Pierre Auger**

*Wednesday, 5 September 2018 14:00 (20 minutes)*

**Presenters:** CARVALHO, Anaísa; FERNANDES, Pedro; MORAIS, Rui; SIMÕES, Tiago

**Session Classification:** Session 3

Contribution ID: 12

Type: **not specified**

## **Desenvolvimento de um display de taxas de muões**

*Wednesday, 5 September 2018 14:20 (20 minutes)*

**Presenters:** PIÇARRA, Pedro; AMADEU, Ricardo

**Session Classification:** Session 3

Contribution ID: 13

Type: **not specified**

## **Cosmic ray muons reconstruction in the SNO+ experiment**

*Wednesday, 5 September 2018 10:20 (20 minutes)*

**Presenter:** GONÇALVES, Daniel

**Session Classification:** Session 1

Contribution ID: 14

Type: **not specified**

## **Looking for astrophysical gammas with a next generation detector**

*Wednesday, 5 September 2018 14:40 (20 minutes)*

**Presenters:** TORCATO, André; CORDEIRO, José; SERRA, Melissa

**Session Classification:** Session 3

Contribution ID: 15

Type: **not specified**

## **Estudo do desempenho do triggers de jactos difractivos**

*Wednesday, 5 September 2018 15:50 (20 minutes)*

**Presenter:** FERREIRA, Eduardo

**Session Classification:** Session 4



Contribution ID: 16

Type: **not specified**

## **Measurement of H $\rightarrow$ 2 tau with multivariate analysis tools**

*Wednesday, 5 September 2018 16:10 (20 minutes)*

**Presenters:** SINTRA, Luís; CIPRIANO, Ricardo; ALVIM, Tomás

**Session Classification:** Session 4

Contribution ID: 17

Type: **not specified**

## **Acoplamentos do bosão de Higgs a quarks pesados**

*Wednesday, 5 September 2018 16:30 (20 minutes)*

**Presenters:** SANTOS, Alexandre; BARROSO, Filipe; NUNES, Vânia

**Session Classification:** Session 4

Contribution ID: 18

Type: **not specified**

## **Medida da secção eficaz ttbar em acontecimentos dileptónicos usando o ATLAS Open Data**

*Thursday, 6 September 2018 09:00 (20 minutes)*

**Presenters:** FERNANDES, José; NEIVA, Maria

**Session Classification:** Session 5

Contribution ID: 19

Type: **not specified**

## **Pesquisa de acontecimentos $Z'$ $\rightarrow$ $t\bar{t}b\bar{b}$ em topologias semileptónicas usando o ATLAS Open Data**

*Thursday, 6 September 2018 09:20 (20 minutes)*

**Presenters:** NETO, José; CHAVES, Pedro; SALGADO, Sara

**Session Classification:** Session 5

Contribution ID: 20

Type: **not specified**

## Rare decays of the Higgs

*Thursday, 6 September 2018 09:40 (20 minutes)*

**Presenter:** AFONSO, Miguel

**Session Classification:** Session 5

Contribution ID: 21

Type: **not specified**

## High-precision timing detectors for HL-LHC

*Thursday, 6 September 2018 10:00 (20 minutes)*

**Presenter:** REBELO, Nelson

**Session Classification:** Session 5

Contribution ID: 22

Type: **not specified**

## COMPASS (TBC)

**Presenters:** RIBEIRO, Ana; GARABELLO, Elisa; NEVES, Lara; TEIXEIRA, Nuno; GONÇALVES, Rui

**Session Classification:** Session 5

Contribution ID: 23

Type: **not specified**

## **Análise de dados em física de altas energias e astropartículas**

*Thursday, 6 September 2018 11:10 (20 minutes)*

**Presenters:** DOMINGUES, Guillaume; LIMA, Manuel; CARVALHO, Miguel

**Session Classification:** Session 6



Contribution ID: 24

Type: **not specified**

## **Building a muon detector**

*Thursday, 6 September 2018 11:30 (20 minutes)*

**Presenters:** SILVA , João; SILVA, Manuel; PEREIRA , Maria

**Session Classification:** Session 6

Contribution ID: 25

Type: **not specified**

## **Develop an RPC - a gaseous particle detector**

*Thursday, 6 September 2018 11:50 (20 minutes)*

**Presenter:** MATIAS, Rodolfo

**Session Classification:** Session 6

Contribution ID: 26

Type: **not specified**

## **Caracterização de materiais óticos para os upgrades do calorímetro hadrónico TileCal**

*Thursday, 6 September 2018 12:10 (20 minutes)*

**Presenter:** VÍTOR, Carlos

**Session Classification:** Session 6

Contribution ID: 27

Type: **not specified**

## **Reações nucleares com feixes radioactivos a energias relativistas**

*Thursday, 6 September 2018 14:00 (20 minutes)*

**Presenters:** MATIAS, Francisco; SILVA, Rita

**Session Classification:** Session 7

Contribution ID: 28

Type: **not specified**

## **Produção e caracterização de filmes finos**

*Thursday, 6 September 2018 14:20 (20 minutes)*

**Presenter:** MYAKUSH, Andriy

**Session Classification:** Session 7

Contribution ID: 29

Type: **not specified**

## Uso e automatização do código AlfaMC

*Thursday, 6 September 2018 14:40 (20 minutes)*

**Presenter:** PEREIRA, Beatriz

**Session Classification:** Session 7

Contribution ID: **30**

Type: **not specified**

## **Exclusive top quark pair production**

*Thursday, 6 September 2018 15:00 (20 minutes)*

**Presenter:** LOPES, Beatriz R.

**Session Classification:** Session 7

Contribution ID: 31

Type: **not specified**

## **Understanding the quark-gluon plasma in heavy-ion collisions**

*Thursday, 6 September 2018 15:50 (20 minutes)*

**Presenters:** LOPES, João M.; BUGALHO, Luis; ORELHAS, Rafael

**Session Classification:** Session 8



Contribution ID: 32

Type: **not specified**

## **Probing quark-gluon plasma with b-jets**

*Thursday, 6 September 2018 16:10 (20 minutes)*

**Presenters:** LELEWELL, Francisco; BRAVO, João

**Session Classification:** Session 8

Contribution ID: 33

Type: **not specified**

## **Hadrons as probes of the primordial plasma**

*Thursday, 6 September 2018 16:30 (20 minutes)*

**Presenter:** LOURENÇO, João

**Session Classification:** Session 8

Contribution ID: 34

Type: **not specified**

## **Di-Higgs searches with machine learning**

*Thursday, 6 September 2018 16:50 (20 minutes)*

**Presenters:** BENGALA, Miguel; SANTO, Rodrigo

**Session Classification:** Session 8

Contribution ID: 35

Type: **not specified**

## Quasi-online analysis of Drell-Yan data

*Wednesday, 5 September 2018 18:30 (15 minutes)*

**Presenter:** NEVES, Lara

**Session Classification:** Offline reports

Contribution ID: 36

Type: **not specified**

## A hunt for kaons

*Wednesday, 5 September 2018 18:45 (15 minutes)*

**Presenters:** RIBEIRO, Rita; GONÇALVES, Rui

**Session Classification:** Offline reports

Contribution ID: 37

Type: **not specified**

## Coincidence signals in SNO+ water phase

*Wednesday, 5 September 2018 19:00 (15 minutes)*

**Primary author:** CASTANHO, Eduardo

**Presenters:** CASTANHO, Eduardo; GONÇALVES, Jessica

**Session Classification:** Offline reports

Contribution ID: **38**

Type: **not specified**

## **Exotics search of Boosted Dark Matter**

**Session Classification:** Offline reports

Contribution ID: 39

Type: **not specified**

## Lepton universality tests

**Session Classification:** Offline reports